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MEALTH EFFECTS DIVISION
SCIENT FIG DATA REVIEWS
EPA SERIES 361

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Property 1052

August 30, 1971

Pesticide Petition No. 1F1052

Mr. M. M. Gladstone Vice President, Technical Lisison Organics Division Witco Chemical Corporation 400 North Michigan Avenue Chicago, Illinois 60611

Dear Mr. Gladstone:

This replies to your letter of August 18, 1971, inquiring as to the status of Pesticide Petition No. 181052 requesting exemption from requirement of a tolerance for the emulsifier N-(amino-ethyl) ethanolsmine salt of dedecylbenzene sulfonic acid when used in liquid emulsifiable herbicide concentrates.

The petition is still being reviewed by our scientists. In the meantime, the emulsifier may continue to be used in pesticide formulations.

Sincerely yours,

Lee E. TerBush
Petitions Control Officer
Petitions Control Branch
Pesticides Tolerances Division

ee: PRD, EPA

cc: PTD Chemistry Branch Toxicology Branch OGFitzhugh

LETerBush:ea 8/30/71 R/D Init:DMBaker 8/26/71 SEE FALL

### Witco Chemical

August 18, 1971

Clem. Br Buff top

Pesticide Tolerances Division Environmental Protection Agency South Agriculture Building Washington, D.C. 20250

Attn: Mr. Drew M. Baker

Reference: Pesticide Petition No. 1F1052

Dear Mr. Baker:

I submitted two petitions, 1F1043 and 1F1052, on September 15, 1970 and October 5, 1970, respectively.

I received a letter from EPA on 1F1043, dated June 9, 1971, requesting additional information (which has been answered).

However, I have not yet heard anything about 1F1052. Since the two petition numbers are so close together, I am a little concerned, particularly since some customers are asking about the current status of the products affected by 1F1052.

Am I correct in assuming that our customers may continue to use the products affected by 1F1052 pending final action?

Could you give me a rough estimate of when EPA might act on this petition?

Very truly yours,

WITCO CHEMICAL CORPORATION

Gladstone

M. M. Gladstone Vice President Technical Liaison

Organics Division

HED Records Center **Reviews...File R089513... Page .5** of 28

May 14, 1971

Fish and Wildlife Opinion

Mr. Charles L. Smith, Read Patitions Control Section, PRD Shi: Op# 1F1052

In accordance with the discussion between Mr. H. G. Alford, Mr. F. J. McParland, Mr. Deveney, and ourselves on May 15, 1971, we are nearing the end of our review of the following petitions and would appreciate a comment that the proposed tolerance or exemption would not be objectionable from the standpoint of effect on fish and wildlife for each of the following:

070924

0F0965

121017

171026

LF1028

171029

1F1034

191036

171044

171052

Thank you,

Draw M. Baker, Jr., Chief Petitions Control Branch Pesticide Tolerances Division

cc:

each petition

PTD Chemistry Br. Toxicology Br. Dr. Fitzbugh

Difficience 5/14/71

### HED Records Center Series 361 Science Reviews - File R099513 - Page 6 of 28

Chem Comment required

797 11, 1971 Lot

We wish to draw attention to the following observations in regards to the following two politions:

Fr. Orea n. Baker Pesticides Tolarances Livisias

Pesticide Patition Nos. 1F1052

Petitioner: Eitco Chemicals

Witco Chemicals

Hame of Emulsifiers: X(aminoethyl)ethanolemine salt of dodecyl benzene sulfosuccipic acid

A mixture of 4, comparable compounds (Emcol HA, H2A, H3A and H12A)

Formulation designation: Emcol P-10520

AC56-14

Use levels in formulations:

0.2%

Residue estimates as per PES memos: "negligible range if present at all" 2/5/71

1 ppm for mach component Emcols 3/16/71

Use limitation: "pre-emergence or very early in the growing season"

Toxicity data: Acute eral LOSO

Acute oral Logo

two 90-days rat and dog. With undefinable no effect level. but less than 1000 ppm.

Based on Petitions Evaluation Branch memos, we had found the use (our memo 4/26/71) of Emcol P-1052M as safe and suitable for regulation. The basis for safety rested on negligible residues in crop feeds. For the AC56-14, (PP #1F1043) the toxicity data is not satisfactory to issue a regulation. Both the estimates of residues were arrived at on theoretical considerations and no actual estimates were provided by the petitioner.

PP #s 1F1052 & 1F1043

... 2 ··

In this context we wish to draw attention, that we are seriously concerned in learning the "amounts, and chemical nature of residues (parent or derived chemicals) that could be left on the crop reacted or unreacted and could become component of human diet". Thus, the inerts need not be looked too lightly, as some of these are moderately toxic compounds. The final compound is a neutralization product of an acid, alcohol and base, and could very well be hydrolyzed into basic constituent components. The amines as well as alcohols in these cases are of considerable concern for us from toxicity point of view. He therefore seek a better estimate and in depth appraisal of the residues of inert chemicals as well, for safety considerations. The effect of residues on forage crops or hay need be also kept in mind and given some consideration for an overall safety evaluation purpose. Thus whenever there are some complex inert additives requested for inclusion under 420.1001 or as adjuvants to pesticidal formulations, we need a clear chemical structural identity of the proposed compound(s), its purity specifications, and their petential residual levels on crop foods or in human det.

in view of the above, we suggest, a further residual evaluation be made on PP 1F1052 and PP 1F1043 which would be in harmony and could form the basis for safety consideration.

We have drawn attention of Mr. George Beusch and upon hearing from him we will make further evaluations of the proposals in PP IFIOS2 and PP IFIO43.

Krishaa P. Hisra, Ph.D. Toxicology Sranch Pesticides Tolerances Division

CC

OGFitzbuck JCCuspings / Perrine Br. Atlanta Br. (Clewis) PROVEPA PP %s 151052 & 181043

部性**sra/cc** を/11/71

### HED Records Center Series 361 Science Reviews - File R099513 - Page 9 of 28

Pued Soria 20, 1-71 Soff

Proposal to include under 420.1001(d) Exemptions from the requirements of a tolerance "4-(aminocthy))-ethanol amine sait of dodecyl benzene sulfonic acid as a surfactant component of herbicidal formulations for use at "preemergence f.l. 88 1 1052 or very early in the growing season" of crops

Mr. Drew W. Saker Pesticides Tolerances Sivisien

Pesticide Petition No. 1F -1062 (Evaluation of 19/5/70 submission) Mitoo Chemical Corporation 418 Morth Michigan France Chicago, III. 60611 (AF 11-129)

N-(aminostry))stranolamine salt of dodecy) benzene sulfonto acid (trade name Emcol 3-1058%) is described as produced by the neutralization of dodecyl cenzene sulforic acid with M(aminosthyl)ethanolamine (Mb). Cho. CMp. NH. CHp. CHp. OH) at a pH of 4.3-5.1). It is proposed to be used at 3 to 6% of the formulation with an application rate of about 13.8 on/acre or 0.32 mg/sq. ft. of the salt or as 1.9 cm/acre or 0.05 mc/sc. feet of the E-(arinosthyl)ethanelarine.

The Patitions Evaluations Branch stipulates (mens of 2/5/71), on theoretical lasis, that the residues would be in the, "peoligible range if present at all". The petitioner has not given any actual residual data rather than a theoretical estimate is provided in this petition.

The petition contains an acute oral LDGA for Emcol P-10524 (a 75% active compound in 25% n-propendl) as 1700 (450-8205) mg/kgm for female rate and 3101 mg/kgm for male (Hazelton Lab. summary) rats.

### Evaluation

Cerifer (our memo of 11/2/66 in PPIED-896) we could not entertain a treader proposal for aminosthylams ethanolamine dodecyl benzene sulfonate as supportive safety data was lacking. Emcol P-1052k or H-(aminoethy))ethanelamine salt of dodecyl benzene sulfenic acid was proposed by bitco (hemicals. and we were unable to document safety (our mone of 9/17/88) under conditions of its residues in food crops.

We have in our files acute data on h(2-aminosthyl)ethanol amine as follows:

(FAP# 1489, WHO. CH2. CH2. MH. CH2. CH3. CM):

Acute orel 1050, rat 3 cm/hos

Acute skin punctration Lugo, raboit, 3.56 ml/kgm

Acute inhalation exposure, 6-hours, of saturated vapor killed 0/6 rats.

PP 816 -1052

... 9 ...

Acute are irritation (raubit) classed the coestical as "moderately irritating."
Acute skin irritation: was mild to affect.

It may be pointed out that S(2-aminosthy!) with anolaming is different from a than olamings (eon-, di-and tri- compounds) and 2-5-ethylaminosthanel (dartung etal. Food Cosm. & Fox1. 7, 200, 1000).

Hodecyl benzene sulfenic acid is allowed under 125.1334 and 121.2341 and we have toxicity data (Chronic on Monsante's Santomers in FAFFs 1042, 1043. A 1044).

### Lone luston

while we do not have adequate long torm oral feeding data on h-(1-asino-ethyl)ethanol omine, or its dodecyloenzene sulfonic acid salt, we have data on dodecyl benzene sulfonic acid. As suggested to us that there mill be imagligible residues, if at all for the salt or the amine base on food crops, we would find the proposal safe and suitable for regulation. The basis for safety would rest on levels of residues which would have (less than 0.05 phm) no physiological significance. Withis such use limitations we concur with the regulatory recommendations of the Petitions Evaluations branch.

Krisbna F. Misra, Ps.D. Toxicology Granca Pasticides Tolerances Division

cc: OGFitzaugh JCCummings / Perrine Br. Atlanta Br. (Cleuis) PM-300 PP 815 -1052

899isra/cc: 8/26/71 85/Init: GLW:Itsero 8/23/71

Washington, D. C. 20460

je. PPF1F05?

February 5, 1971

AF 11-128

PP #1F1052. Proposed exemption under CFR \$120.1001(d) for the surfactant "N-(aminoethyl) ethanolamine salt of dodecylbenzene sulfonic scid."

Division of Regulations and Patitions Control and Division of Toxicology

The Witco Chemical Company proposes that the surfactant, N-(aminoethyl) ethanolamine salt of dedecylbenzene sulfonic acid, as one component of a multi-component emulsifier used in herbicide formulations, be exempt under the provisions of §120.1001(d). (now designated §420.1001).

### Discussion and Recommendations

The petitioner has not submitted any residue data nor an analytical method for residues in foods. Therefore, we are unable to state with any assurance the usual conclusions relating to residues to be expected in crops, adequacy of the analytical method, persistence in soils, or status under \*420.6(a). However, in view of the small amounts of the adjuvant which would be applied (calculated value of 0.32 mg per square foot of field surface) and the pattern of uses described in Section F (pre-emergence or very early in the growing season), we believe that residues in hervested crops would be in the negligible range, if present at all.

The emulsifier is intended for use in some herbicide formulations, e.g., 2,4-D and 2,4,5-T, which are registered for use on pasture grasses or small grains. Since these crops may be grazed early the possibility is noted that some small residues could occur on the forages. There are no forage warnings.

In the absence of residue data, any recommendation in favor of the proposed exemption would be based almost entirely on toxicological considerations. This would be consistent with the exemptions previously granted for various alkyl amine and alkanol amine salts of alkyl benzenesulfonic acids (FR 2/20/70). Our files indicate that these exemptions were granted informally (no petition) without residue data or methodology, primarily on the basis of toxicological considerations. Unless there are some toxicological properties of the N-(aminoethyl) ethanolamine not in common with those of the amine salts presently regulated, it would seem that this salt could be added to \420.1001(d).

PP #1F1052 - Page 2

It should be noted that the amine salts presently listed in \$420.1001(d) are not restricted as to use pattern whereas the present proposal (section F) would limit the use to "pre-emergence or very early in the growing season." The specimen regulation prepared for this petition (L. Terbush, 10/27/70) does not include this limitation on the use. In our opinion, it should be included in the regulation, even though it is somewhat inconsistent with the present Regulation on the other amine salts.

William S. Cox

Joseph G. Cummings Petitions Evaluations Branch Environmental Protection Agency

cc: BF-148 CF-30 BF-216 PP #1F1052

WSCox/JGCummings/erk February 5, 1971

RD/Init/JWolff

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ENVIRONMENTAL PROTECTION AGENCY

9-PP-1F1052

Certification of Usefulness Pesticide Petition 1F1052 Drew M. Baker BF-320 45% 144 3/7/7/

JAN 19 1971

an fli. NF 12

We have examined the subject petition and related data, proposing an exemption from the requirement of a tolerance for the emulsifier N (aminoethyl)ethanolamine salt of dodecylbenzene sulfonic acid, when used to modify the emulsification behavior of other components of emulsifiers used in herbicide formulations.

We certify that this emulsifier is useful in pesticide formulations as proposed.

Charles L. Smith Head, Petitions Control Section

EPA:PR:CLSmith:cm 1-18-71

THE STATE OF

DATE   0 -	29-70
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TO :

BF-216 BF-148

FROM

Div. of Regulations and Petitions Control (BF-320)

Office of Compliance

SUBJECT:

Evaluation of Pesticide Petition No. 1F/059

We are also transmitting a copy of the filing letter dated 10-37-70

Assuming that USDA will take 30 days to issue a certification of usefulness and an opinion on the residue, we will need your complete evaluation by 1-12-71 in order to meet the statutory deadline on this petition.

cc: BF-320 EF-301 (Mr. Ramsey)

# End of Document

TO: Jack WHY - W Date: 11/5/70
Petition No. : 1F1052 is assigned to you for review.
(1) To help us decide as soon as possible on a method tryout, please
indicate before (date), if there are any major
deficiencies in the data of this petition and whether or not a tryout
is needed.
(2) To meet permanent petition deadlines, complete and submit your
review to your team leader within 45 days, in this case by $\frac{12/20/70}{}$
(date).
Your team leader will, in his turn submit it for final approval within
the following 10 days, i.e. by 12/30/70 (date).
(3) To meet amended petition, temporary petition or 408e petition deadling
complete and submit your review to your team leader within 30 days, i.e.
by (date). Your team leader will submit it
for final approval within the following 5 days, i.e. by
(date). Lastative 45-DDL is 1/12/21

Initial, date and show this form to your team leader and to G.J. Beusch.

G.J. Beusch

10/15/68

67 216

October 29. 1970

Pesticide Petition No. 171003

Mr. M. M. Gladstone, Vice President Technical Liason, Organics Division Witeo Chesical Corporation 400 North Michigan Avenue Chicago, Illinois 60611

Dear Mr. Gladetone:

We have your letter of October 5, 1970, transmitting three copies of a petition requesting establishment of an exemption from requirement of telerances for residues of the emmissiter p-(aminothyl) ethanolomine sait of dodreylbennene sulfonic acid when used in liquid emmissitable herbicide concentrates. We acknowledge receipt of your chees for \$1,000 which accompanied the petition.

The petition has been designated Pesticide Petition No. 171852 and it is being filed today. Further action annits completion of scientific review and evaluation.

Fincerely yours.

Lee S. Termush Division of Regulations and Petitions Control Office of Compliance Surgan of Foods and Posticides

ec: Pesticides Regulation Bivision, ABS, USBA

BF-320 BF-148 BF-216 BF-300 CA-120 (Miss Pellegren)

LETerBush:man 10/29/70; mbc 10/23/70 R/D Init:DMBaker 10/27/70



HED Records Center Series 361 Science Reviews - File R099513 - Page 22 of 28

BF-315

### PESTICIDE PETITION RESUME

PETITION NO.: 1F1052 DATE RECEIVED: 10-15-70

PETITIONER: Witco Chemical Corp.

COMMON NAME OF PESTICIDE: None

TRADE NAME: None

GENERAL USE: Emulsifier in pesticide formulations

NATURE OF REQUEST: Establish exemption from requirement of a

tolerance.

RELATED PETITIONS: None

### SECTION A:

1. Chemical name: N-(aminoethyl)ethanolamine salt of dodecylbenzene sulfonic scid

Ingredients

- (a) Technical product
  Not applicable
- (b) Formulations
  Not applicable

### SECTION B:

- 1. When applied pre-emergence, or very early in growing season
- 2. How applied with liquid emulsifiable herbicide concentrate, at concentration of less than 1% of total formulation.

### SECTION C:

- 1. Acute Toxicity
  - (a) Oral summary sheet. Full report was submitted in August of 1969.
  - (b) Intraperitoneal None
  - (c) Dermal None
- 2. Sub-acute Toxicity None
- 3. Cheonic Toxicity None
- 4. Carcinogenicity None
- 5. Teratogenicity None
- 6. Mutagenicity None

### Page 2 - Pesticide Petition Resume

### SECTION D:

- 1. Residue Data None
- 2. Metabolism Studies None
- 3. Analytical Method the method of L.E. Brydia and H.E. Persinger, Analt. Chem. 39:1318-20, 1967.

Residues in excess of proposed televeness are not expected. Not applicable

R.A.C. 's SECTION F: Proposed Tolerance

> A11 Exemption from tolerance

SECTION G: Reasonable Grounds in Support of the Petition.

1. Need

2. Negligible hazard

Food & Drug Officer: LETerBush: mbc Date: 10/23/70

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RF-316

BRIEFING MEMORANDUM Witco Chemical Corp. Chicago, Illinois

PP No. 1F1052 - Exemption from Requirement of a Tolerance for an Emulsifier in Pesticide Formulations

### COMMISSIONER OF FOOD AND DRUGS

- The Witco Chemical Corporation has requested exemption from requirement of tolerances for residues of the emulsifier N-(aminoethyl)ethanolamine salt of dodecylbenzene sulfonic acid when used in liquid emulsifiable herbicide concentrates.
- 2. The Pesticides Regulation Division, ARS, USDA, has certified that the emulsifier is useful in pesticide formulations.
- 5. The Divison of Pesticide Chemistry and Toxicology finds:
  - a. The metabolism of the emulsifier is adequately delineated.
  - b. An adequate analytical method is available.
  - c. The residues will be in the order of magnitude of less than \_\_\_\_ parts per million.
- 4. The Division of Toxicology finds the proposed exemption safe and that it will protect the public health.
- The Office of Pesticides also finds the proposed exemption safe and that it will protect the public health.
- 6. We recommend that the attached order be signed and published.

Lee E, TerBush, etc.

APPROVED:

F. J. McFarland, Director

L. L. Ramsey, etc.

BF-916

### TITLE 21--FOOD AND DRUGS

### CHAPTER I--FOOD AND DRUG ADMINISTRATION DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

SUBCHAPTER B -- FOOD AND FOOD PRODUCTS

PART 120--TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES

### N-(AMINOETHYL) ETHANOLANE SALT OF DODECYLBENZENE SULFONIC ACID

A petition (PP 1F1052) was filed with the Food and Drug

Administration by the Witco Chemical Corporation, 400 North Michigan

Avenue, Chicago, Ill. 60611, proposing establishment of an exemption from requirement of a tolerance for residues of the emulsifier

M-(aminoethyl) ethanolamine salt of dodecylbenzene sulfonic acid

when used as an inert ingredient in liquid emulsifiable herbicide

concentrates.

The Secretary of Agriculture has certified that this pesticide chemical is useful in pesticide formulations.

Based on consideration given the data submitted in the petition and other relevant material, the Commissioner of Food and Drugs concludes that the exemption established by this order is safe and will protect the public health.

Therefore, pursuant to the provisions of the Federal Food, Drug, and Cosmetic Act (sec. 408(d)(2), 68 Stat. 512; 21 U.S.G.

346a(d)(2) and under the authority delegated to the Commissioner
(21 CFR 2.120), § 120.1001(d) is amended by alphabetically inserting in the list a new item, as follows:

Page 2 - N-(aminoethyl) ethanolamine salt of dodecylbenzene sulfonic acid

§ 120.1001(d) Exemptions from the requirement of a tolerance.

\* \* \* \* \* \*

Inert Ingredients	Limits	Uses
* * *	* * *	* * *
-(aminoethyl) ethanolamine	To be used only	Emulsifier
salt of dodecylbenzene	in liquid emul-	
sulfonic acid	sifiable herbicide	
	concentrates	
مان مان مان مان مان مان مان مان مان مان مان مان مان		

LETerBush:mbc 10/27/70



### R099513

Chemical:

Polyoxyethylene\* castor oil \*(15-200 mol

PC Code:

790201

**HED File Code** 

11500 Petition Files Chemistry

Memo Date:

03/18/2004

File ID:

00000000

**Accession Number:** 

412-05-4000

HED Records Reference Center 09/08/2004